

WHAT IS CLAIMED IS:

1. A digital image capture system comprising:
an image sensor;
5 a package structure for holding said image sensor, said package structure including attachment means for attaching an optics system to said package structure; and
electrical connectors for creating electrical connections between said image sensor and a circuit board.
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2. The digital image capture system of claim 1 wherein said attachment means includes an irregular surface on said package structure for mechanically attaching said optics system to said package structure.
- 15 3. The digital image capture system of claim 1 wherein said attachment means includes a recess on said package structure for mechanically attaching said optics system to said package structure.
4. The digital image capture system of claim 1 wherein said attachment means includes a clip receiver integrated with said package structure for
20 mechanically attaching said optics system to said package structure.
5. The digital image capture system of claim 1 wherein said attachment means includes a clip arm integrated with said package structure for mechanically
25 attaching said optics system to said package structure.
6. The digital image capture system of claim 1 wherein said package structure includes a contact surface that is complementary to a contact surface of said optics system.
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7. The digital image capture system of claim 6 wherein said contact surface of said package structure is formed to create a light-tight connection with said contact surface of said optics system.
8. The digital image capture system of claim 1 further including a transparent cover connected to said package structure that encloses said image sensor within a cavity of the package structure.
9. The digital image capture system of claim 8 further including a removable protective barrier, connected to said attachment means, that protects said transparent cover from damage.
10. The digital image capture system of claim 1 wherein said attachment means causes said optics system to be aligned with said package structure and said image sensor when said optics system is attached to said package structure.
11. The digital image capture system of claim 1 further including an alignment feature integrated into said package structure for aligning said optics system with said image sensor.

12. A digital image capture system comprising:

an image sensor package; and

an optics system connected to said image sensor package;

said image sensor package comprising;

5 an image sensor;

a package structure for holding said image
sensor, said package structure including

attachment means for attaching said optics
system to said image sensor package;

10 electrical connectors for creating electrical connections
between said image sensor and a circuit board;

said optics system comprising;

a lens;

15 a lens holder structure for holding said lens, said
lens holder structure including

attachment means for attaching said optics
system to said image sensor package.

13. The digital image capture system of claim 12 wherein said attachment means
20 of said package structure and said attachment means of said lens holder
structure include complementary surfaces for mechanically attaching said
optics system to said image sensor package.

14. The digital image capture system of claim 12 wherein said image sensor
25 package includes a transparent cover connected to said package structure that
encloses said image sensor within a cavity of said package structure.

15. The digital image capture system of claim 12 wherein said attachment means
30 of said package structure and said lens holder structure cause said lens to be
aligned with said image sensor.

16. The digital image capture system of claim 12 wherein said attachment means
of said package structure includes clip receivers and wherein said attachment
means of said lens holder structure includes clip arms, said clip arms and said
clip receivers being mutually attachable to create a connection between said
package structure and said lens holder structure.

17. The digital image capture system of claim 12 wherein said attachment means
of said package structure includes clip arms and wherein said attachment
means of said lens holder structure includes clip receivers, said clip arms and
said clip receivers being mutually attachable to create a connection between
said package structure and said lens holder structure.

18. The digital image capture system of claim 12 wherein said package structure
and said lens holder structure include complementary contact surfaces.

19. A digital image capture system comprising:

a circuit board;

an image sensor package connected to said circuit board; and

an optics system connected to said image sensor package;

5 said circuit board having electrical contact points;

 said image sensor package comprising;

 an image sensor;

 a package structure for holding said image

 sensor, said package structure including

10 attachment means for attaching said optics

 system to said image sensor package;

 electrical connectors that are attached to said electrical

 contact points of said circuit board, said electrical connectors

 creating electrical connections between said image sensor and

15 said contact points of said circuit board;

 said optics system comprising;

 a lens;

 a lens holder structure for holding said lens, said lens

 holder structure including attachment means for attaching said

20 optics system to said image sensor package.

20. The digital image capture system of claim 19 wherein said attachment means
of said package structure and said attachment means of said lens holder
structure include complementary surfaces for mechanically attaching said
25 optics system to said image sensor package.

21. The digital image capture system of claim 19 wherein said image sensor
package includes a transparent cover connected to said package structure that
encloses said image sensor within a cavity of said package structure.

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22. The digital image capture system of claim 19 wherein said attachment means of said package structure includes clip receivers and wherein said attachment means of said lens holder structure includes clip arms, said clip arms and said clip receivers being mutually attachable to create a connection between said package structure and said lens holder structure.

23. The digital image capture system of claim 19 wherein said attachment means of said package structure includes clip arms and wherein said attachment means of said lens holder structure includes clip receivers, said clip arms and said clip receivers being mutually attachable to create a connection between said package structure and said lens holder structure.